IN THE CLAIMS:

Claim 1 (currently amended) A peptide derivative peptidomimic peptidomimetic compound having general formula $X-CX_1-NH-AA_1-CONH-AA_2$ wherein X is a heterocyclic or unusual amino acid, X_1 is O or H_2 H and AA_1 and AA_2 are amino acids.

Claim 2 (currently amended) A peptide derivative peptidomimetic compound according to claim 1 wherein X is a heterocyclic selected from the group consisting of F-moc-3- (2-furyl)-L-alanine, F-3- (3-thienyl)-L-alanine, 4-Fmoc-piperazine-1-yl-acetic acid hydrate, Fmoc-3, 3-diphenyl-L-alanine, 1-Fmoc-azetidine-3-carboxylic acid, Benzimidazolepropionic acid, Fmoc1,2,3,4 tetrahdroquinoline-3-carboxylic acid, 2-oxo-4-phenyl-3-oxazolidine-acetic acid, 5-Methoxy-2-methyl-3-indole acetic acid and 5-Mercapto-1-terazole acetic acid.

Claim 3 (cancelled)

Claim 4 (currently amended) A peptide derivative peptidomimetic compound according to claim 1 wherein AA, and AA, are the dipeptide for position AA₁-AA₂, is selected from the group consisting of Orn-Pro, Cha-Pro, Ile-Pro, Dap-Pro, Val-Trp, Lys-Pro, Lys-Trp, Orn-Trp, Dap-Trp, Ile-Phe, β-Ala-Pro, Pro-Pro and Cha-Trp.

Claims 5 and 6 (cancelled)

Claim 7 (currently amended) A peptidomimic peptidomimetic compound according to claim 1

wherein the concentration of the peptidomimic compound for 50% inhibition of ACE activity (IC₅₀) ranged range from 2 μmole to 10 micromolar μmole in in-vitro condition using synthetic substrate Hippuryl-Histidyl-Leucine (HHL).

Claim 8 (currently amended) A peptidomimic peptidomimetic compound according to claim 1 wherein the a dose of the synthesized ACE inhibiting peptidomimic peptidomimetic compound which effectively blocked blocks angiotensin converting enzyme ranges between 5-8 mg/kg of body weight of a mammal.

Claim 9 (currently amended/withdrawn) A process to synthesize the peptide derivative peptidomimic peptidomimetic compound of claim 1, comprising

- (a) coupling ACE inhibiting antihypertensive peptidomimic peptidomimetic molecule wherein a heterocyclic or unusual amino acid present at ante-penultimate position is coupled to a dipeptide with amino acids present at ultimate position and penultimate position;
 - (b) synthesising dipeptide on a solid support by coupling and deprotection;
- (c) coupling the heterocyclic or unusual amino acid to deprotected dipeptide at the N- α terminal of dipeptide;
- (d) cleaving the synthesized peptidomimic peptidomimetic compound of step(c) from solid support followed by purification and characterization;

Claims 10 - 17 (cancelled)

Claim 18 (currently amended) A method for inhibiting angiotensin converting enzyme in a

mammal comprising providing the peptide derivative peptidomimic peptidomimetic compound of claim 24, and administering the peptide derivative peptidomimic peptidomimetic compound to the mammal as an angiotensin converting enzyme inhibitor.

Claim 19 (currently amended/withdrawn) The method according to claim 18 wherein the the peptide derivative peptidomimic peptidomimetic compound is administered to the mammal in a dose effective to block angiotensin converting enzyme in the mammal, said dose ranging between 5-8 mg/kg of body weight of the mammal.

Claim 20 (currently amended/withdrawn) Method for the inhibition of angiotensin converting enzyme in a subject suffering from hypertension comprising administering to the subject a pharmaceutically effective amount of the peptide derivative peptidomimic peptidomimetic compound of claim 1 with a pharmaceutically effective carrier.

Claim 21 (withdrawn) Method according to claim 20 wherein the subject is a mammal.

Claim 22 (withdrawn) Method according to claim 20 wherein the subject is a human being.

Claim 23 (currently amended/withdrawn) Method according to claim 20 wherein the peptide derivative peptidomimic peptidomimetic compound is administered to the subject in a dose which effectively blocks angiotensin converting enzyme in the subject, said dose ranging between 5-8 mg/kg of body weight of the subject.

Claim 24 (currently amended) The peptide derivative peptidomimic peptidomimetic compound according to claim 1, wherein AA₁ is ornithine and AA₂ is proline.

Claim 25 (currently amended) The peptide derivative peptidomimic peptidomimetic compound according to claim 24, wherein X is L-Abrine.

Claim 26 (currently amended) The peptide derivative peptidomimic peptidomimetic compound according to claim 1, which is represented by general formula X-CX₁-NH-AA₁-CONH-AA₂ wherein AA₁ is ornithine and AA₂ is proline.

Claim 27 (currently amended) The peptide derivative peptidomimic peptidomimetic compound according to claim 26, wherein X is L-Abrine.

Claim 28 (new). The peptidomimetic compound according to claim 1, wherein the peptidomimetic compound is selected from the group consisting of (a) L-Abrine-Orn-Pro, 3-(3-thienyl)-L-alanine-Orn-Pro, 3-(2-furyl)-L-alanine-Orn-Pro, 2-Benzimidazoleacetic acid-Orn-Pro, 5-Hydroxytrytophan-Orn-Pro, Homotryptophan-Orn-Pro, Homophenyalanine-Orn-Pro, 1,2,3,4-tetrahydro isoquinoline-3-carboxylic acid-Orn-Pro, Azetidine-3-carboxylic acid-Orn-Pro, Cyclohexylalanine-Orn-Pro, 2-Oxo-4-phenyl-3-oxazolidine acetic acid-Orn-Pro, and 4-piperazine acetic acid-Orn-Pro.

Claim 29 (new) A peptidomimetic compound according to claim 1 wherein X is an unusual amino acid selected from a group consisting of 5-Hydroxytryptophan, L-Abrine, L-β-

homoproline, β-HomoTrp-OH, Homophenylalanine L-β-homotryptophan, L-2-propargyl glycine,3,3 Diphenylalanine, L-β-Homohydroxyproline and Cyclohexylalanine.

Claim 30 (new) A peptidomimetic compound according to claim 1 wherein the peptidomimetic compound is selected from the group consisting of:

- (a) L-Abrine-Orn-Pro, 3-(3-thienyl)-L-alanine-Orn-Pro, 3-(2-furyl)-L-alanine-Orn-Pro, 2-Benzimidazoleacetic acid-Orn-Pro, 5-Hydroxytrytophan-Orn-Pro, Homotryptophan-Orn-Pro, Homophenyalanine-Orn-Pro, 1,2,3,4-tetrahydro isoquinoline-3-carboxylic acid-Orn-Pro, Azetidine-3-carboxylic acid-Orn-Pro, Cyclohexylalanine-Orn-Pro, 2-Oxo-4-phenyl-3-oxazolidine acetic acid-Orn-Pro, 4- piperazine acetic acid-Orn-Pro;
- (b) L-Abrine-Cha-Pro, 3-(3-thienyl)-L-alanine-Cha-Pro, 3-(2-furyl)-L-alanine-Cha-Pro, 2-Benzimidazoleacetic acid-Cha-Pro, 5-Hydroxytrytophan-Cha-Pro, Homotryptophan-Cha-Pro, Homophenyalanine-Cha-Pro, 1,2,3,4-tetrahydro isoquinoline-3-carboxylic acid-Cha-Pro, Azetidine-3-carboxylic acid-Cha-Pro, Cyclohexylalanine-Cha-Pro, 2-Oxo-4-phenyl-3-oxazolidine acetic acid-Cha-Pro, 4-piperazine acetic acid-Cha-Pro;
- (c) L-Abrine-Ile-Pro, 3-(3-thienyl)-L-alanine-Ile-Pro, 3-(2-furyl)-L-alanine-Ile-Pro, 2-Benzimidazoleacetic acid-Ile-Pro, 5-Hydroxytrytophan-Ile-Pro, Homotryptophan-Ile-Pro, Homophenyalanine-Ile-Pro, 1,2,3,4-tetrahydro isoquinoline-3-carboxylic acid-Ile-Pro, Azetidine-3-carboxylic acid-Ile-Pro, Cyclohexylalanine-Ile-Pro, 2-Oxo-4-phenyl-3-oxazolidine acetic acid-Ile-Pro, 4-piperazine acetic acid-Ile-Pro;
- (d) L-Abrine-Dap-Pro, 3-(3-thienyl)-L-alanine- Dap-Pro, 3-(2-furyl)-L-alanine-Dap-Pro, 2-Benzimidazoleacetic acid-Dap-Pro, 5-Hydroxytrytophan-Dap-Pro, Homotryptophan-Dap-Pro, Homophenyalanine-Dap-Pro, 1,2,3,4-tetrahydro isoquinoline-3-

carboxylic acid-Dap-Pro, Azetidine-3-carboxylic acid-Dap-Pro, Cyclohexylalanine-Dap-Pro, 2-Oxo-4-phenyl-3-oxazolidine acetic acid-Dap-Pro, 4-piperazine acetic acid-Dap-Pro;

- (e) L-Abrine-Val-Trp, 3-(3-thienyl)-L-alanine-Val-Trp, 3-(2-furyl)-L-alanine-Val-Trp, 2-Benzimidazoleacetic acid-Val-Trp, 5-Hydroxytrytophan- Val-Trp,

 Homotryptophan-Val-Trp, Homophenyalanine-Val-Trp, 1,2,3,4-tetrahydro isoquinoline-3-carboxylic acid-Val-Trp, Azetidine-3-carboxylic acid-Val-Trp, Cyclohexylalanine-Val-Trp, 2-Oxo-4-phenyl-3-oxazolidine acetic acid-Val-Trp, 4-piperazine acetic acid-Val-Trp;
- (f) L-Abrine-Lys-Pro, 3-(3-thienyl)-L-alanine- Lys-Pro, 3-(2-furyl)-L-alanine- Lys-Pro, 2-Benzimidazoleacetic acid-Lys-Pro, 5-Hydroxytrytophan-Lys-Pro, Homotryptophan-Lys-Pro, Homophenyalanine-Lys-Pro, 1,2,3,4-tetrahydro isoquinoline-3-carboxylic acid-Lys-Pro, Azetidine-3-carboxylic acid-Lys-Pro, Cyclohexylalanine-Lys-Pro, 2-Oxo-4-phenyl-3-oxazolidine acetic acid-Lys-Pro, 4-piperazine acetic acid-Lys-Pro;
- (g) L-Abrine-Lys-Trp, 3-(3-thienyl)-L-alanine-Lys-Trp, 3-(2-furyl)-L-alanine-Lys-Trp, 2-Benzimidazoleacetic acid-Lys-Trp, 5-Hydroxytrytophan-Lys-Trp,
 Homotryptophan-Lys-Trp, Homophenyalanine-Lys-Trp, 1,2,3,4-tetrahydro isoquinoline-3-carboxylic acid-Lys-Trp, Azetidine-3-carboxylic acid-Lys-Trp, Cyclohexylalanine-Lys-Trp, 2-Oxo-4-phenyl-3-oxazolidine acetic acid-Lys-Trp, 4-piperazine acetic acid-Lys-Trp;
- (h) L-Abrine-Orn-Trp, 3-(3-thienyl)-L-alanine-Orn-Trp, 3-(2-furyl)-L-alanine-Orn-Trp, 2-Benzimidazoleacetic acid-Orn-Trp, 5-Hydroxytrytophan-Orn-Trp,

 Homotryptophan-Orn-Trp, Homophenyalanine-Orn-Trp, 1,2,3,4-tetrahydro isoquinoline-3-carboxylic acid-Orn-Trp, Azetidine-3-carboxylic acid-Orn-Trp, Cyclohexylalanine-Orn-Trp,

 2-Oxo-4-phenyl-3-oxazolidine acetic acid-Orn-Trp, 4-piperazine acetic acid-Orn-Trp;

- (i) L-Abrine-Dap-Trp, 3-(3-thienyl)-L-alanine-Dap-Trp, 3-(2-furyl)-L-alanine-Dap-Trp, 2-Benzimidazoleacetic acid-Dap-Trp, 5-Hydroxytrytophan-Dap-Trp,
 Homotryptophan-Dap-Trp, Homophenyalanine-Dap-Trp, 1,2,3,4-tetrahydro isoquinoline-3-carboxylic acid-Dap-Trp, Azetidine-3-carboxylic acid-Dap-Trp, Cyclohexylalanine-Dap-Trp,
 2-Oxo-4-phenyl-3-oxazolidine acetic acid-Dap-Trp, 4-piperazine acetic acid-Dap-Trp;
- (j) L-Abrine-Ile-Phe, 3-(3-thienyl)-L-alanine-Ile-Phe, 3-(2-furyl)-L-alanine-Ile-Phe, 2-Benzimidazoleacetic acid-Ile-Phe, 5-Hydroxytrytophan- Ile-Phe, Homotryptophan-Ile-Phe, Homophenyalanine-Ile-Phe, 1,2,3,4-tetrahydro isoquinoline-3-carboxylic acid-Ile-Phe, Azetidine-3-carboxylic acid-Ile-Phe, Cyclohexylalanine-Ile-Phe, 2-Oxo-4-phenyl-3-oxazolidine acetic acid- Ile-Phe, 4-piperazine acetic acid-Ile-Phe;
- (k) L-Abrine-β-Ala-Pro, 3-(3-thienyl)-L-alanine-β-Ala-Pro, 3-(2-furyl)-L-alanine-β-Ala-Pro, 2-Benzimidazoleacetic acid-β-Ala-Pro, 5-Hydroxytrytophan-β-Ala-Pro, Homotryptophan-β-Ala-Pro, Homophenyalanine-β-Ala-Pro, 1,2,3,4-tetrahydro isoquinoline-3-carboxylic acid-β-Ala-Pro, Cyclohexylalanine-β-Ala-Pro, 2-Oxo-4-phenyl-3-oxazolidine acetic acid-β-Ala-Pro, 4-piperazine acetic acid-β-Ala-Pro;
- (l) L-Abrine-Pro-Pro, 3-(3-thienyl)-L-alanine-Pro-Pro, 3-(2-furyl)-L-alanine-Pro-Pro, 2-Benzimidazoleacetic acid-Pro-Pro, 5-Hydroxytrytophan-Pro-Pro, Homotryptophan-Pro-Pro, Homophenyalanine-Pro-Pro, 1,2,3,4-tetrahydro isoquinoline-3-carboxylic acid-Pro-Pro, Azetidine-3-carboxylic acid-Pro-Pro, Cyclohexylalanine-Pro-Pro, 2-Oxo-4-phenyl-3-oxazolidine acetic acid-Pro-Pro, 4-piperazine acetic acid-Pro-Pro;

(j) L-Abrine-Cha-Trp, 3-(3-thienyl)-L-alanine-Cha-Trp, 3-(2-furyl)-L-alanine-Cha-Trp, 2-Benzimidazoleacetic acid-Cha-Trp, 5-Hydroxytrytophan- Cha-Trp, Homotryptophan-Cha-Trp, Homophenyalanine-Cha-Trp, 1,2,3,4-tetrahydro isoquinoline-3-carboxylic acid-Cha-Trp, Azetidine-3-carboxylic acid-Cha-Trp, Cyclohexylalanine-Cha-Trp, 2-Oxo-4-phenyl-3-oxazolidine acetic acid-Cha-Trp, and 4-piperazine acetic acid-Cha-Trp.